Product Load Following Factors for period 4th Jan-2021 – 30th September 2021 - Methodology and Approved Values.

Date:	17/12/2020

1. Summary

Per H.3.3.1 of the Capacity Market Code, the Product Load Following Factor (PLFF) for a product is a value that allows for the impact of the Capacity Quantity Scaling Factor (as calculated in accordance with paragraph F.18.2.1 of the Trading and Settlement Code).

Per H.3.3.2 of the Capacity Market Code states that the PLFF for the specific time interval covered by a Product shall be determined in accordance with a methodology determined by the Regulatory Authorities from time to time.

F.18.2.1 of the Trading and Settlement Code states that The Market Operator shall calculate the Capacity Quantity Scaling Factor ($FSQC_\gamma$) in Imbalance Settlement Period, γ, as follows:

$$FSQC_\gamma = Min\left(\frac{\left|\sum_v Min(QMLF_{v\gamma},0)\right|+(qCREQAR_y \times DISP)}{\sum_\Omega \sum_{n \in \gamma, qCCOMMISS \neq 0}(qCLF_{\Omega n}) \times DISP}, \frac{\sum_\Omega \sum_{n \in \gamma, qCCOMMISS \neq 0}(qCLF_{\Omega n}) \times DISP}{qCREQ_y \times DISP}, 1\right)$$

where:

(a) $QMLF_{v\gamma}$ is the Loss-Adjusted Metered Quantity for Supplier Unit, v, in Imbalance Settlement Period, γ;
(b) $qCREQ_y$ is the Required Capacity Quantity in Capacity Year, y, determined in accordance with the Capacity Market Code;
(c) $qCREQAR_y$ is the Reserve Adjustment Required Capacity Quantity, in Capacity Year, y, determined in accordance with the Capacity Market Code;
(d) DISP is the Imbalance Settlement Period Duration.
(e) $qCLF_{\Omega n}$ is the Loss-Adjusted Capacity Quantity for Capacity Market Unit, Ω, for Contract Register Entry, n, determined in accordance with the Capacity Market Code;
(f) $\sum_v$ is a summation over all Supplier Units, v;
(g) $\sum_\Omega$ is a summation over all Capacity Market Units, Ω; and
(h) $\sum_{n \in \gamma, qCCOMMISS \neq 0}$ is a summation across all Contract Register Entries, n, for Capacity Market Unit, Ω, relevant in Imbalance Settlement Period, γ, and which has commissioned in accordance with the Capacity Market Code.

2. Values

- $QMLF_{v\gamma}$ in this calculation is the forecast annual load factor.
- $qCREQ_y$ Is the Required Capacity for the CY 2020/21, which is 7,050 MW (per Final Auction Information Pack 20/21)
- $qCREQAR_y$ is the Reserve Adjustment parameter which is currently set to 0MW

- DISP is the Imbalance Settlement Period Duration, with a value of 0.5

- qCLF$_{\Omega n}$ Is the Loss Adjusted Commissioned Capacity Quantity. This is a summation of Existing Capacity, Awarded New Capacity that is Substantially Complete by 1st October 2020, and Awarded New Capacity that is expected to achieve Substantial Completion by the Long Stop Date. This value is 7,598.774 MW

3. Calculation

Using 30 Min Load forecast values for this period, a total of 12,960 $FSQC_\gamma$ values are calculated. To calculate the PLFF, the MAX $FSQC_\gamma$ value is taken for each week. See Table 1 in the Appendix below for approved PLFF values.

4. Appendix

Table 1: Approved PLFF values for 4th Jan-21 – 30th Sept-2021

Week Commencing	Week Ending	Week Number	Product Load Following Factor
28/12/2020	03/01/2021	53	0.788
04/01/2021	10/01/2021	2	0.883
11/01/2021	17/01/2021	3	0.882
18/01/2021	24/01/2021	4	0.857
25/01/2021	31/01/2021	5	0.881
01/02/2021	07/02/2021	6	0.875
08/02/2021	14/02/2021	7	0.866
15/02/2021	21/02/2021	8	0.849
22/02/2021	28/02/2021	9	0.854
01/03/2021	07/03/2021	10	0.833
08/03/2021	14/03/2021	11	0.813
15/03/2021	21/03/2021	12	0.804
22/03/2021	28/03/2021	13	0.757
29/03/2021	04/04/2021	14	0.734
05/04/2021	11/04/2021	15	0.695
12/04/2021	18/04/2021	16	0.710
19/04/2021	25/04/2021	17	0.704
26/04/2021	02/05/2021	18	0.694
03/05/2021	09/05/2021	19	0.698
10/05/2021	16/05/2021	20	0.685
17/05/2021	23/05/2021	21	0.697
24/05/2021	30/05/2021	22	0.689
31/05/2021	06/06/2021	23	0.672
07/06/2021	13/06/2021	24	0.683
14/06/2021	20/06/2021	25	0.683
21/06/2021	27/06/2021	26	0.684
28/06/2021	04/07/2021	27	0.670
05/07/2021	11/07/2021	28	0.676
12/07/2021	18/07/2021	29	0.660
19/07/2021	25/07/2021	30	0.661
26/07/2021	01/08/2021	31	0.659
02/08/2021	08/08/2021	32	0.668
09/08/2021	15/08/2021	33	0.675
16/08/2021	22/08/2021	34	0.674
23/08/2021	29/08/2021	35	0.682
30/08/2021	05/09/2021	36	0.690
06/09/2021	12/09/2021	37	0.703
13/09/2021	19/09/2021	38	0.702
20/09/2021	26/09/2021	39	0.714
27/09/2021	03/10/2021	40	0.736